## IN THE CLAIMS

1. (currently amended) A method of at least partially compensating for an X-ray tube target angle heel effect, said method comprising:

positioning a filter having an anode side and a cathode side between an X-ray source and an X-ray detector, wherein the cathode side has a higher attenuation coefficient than the anode side, and wherein the attenuation coefficient is determined to at least partially compensate for the target angle heel effect.

- 2. (original) A method in accordance with Claim 1 wherein said positioning a filter comprises positioning a wedge shaped filter, wherein the wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein the horizontal top and the bottom are not parallel and wherein the first vertical side and the second vertical side are unequal in length.
- 3. (original) A method in accordance with Claim 2 wherein said positioning a wedge shaped filter comprises depositing a material on an X-ray tube window to form a wedge shaped filter.
- 4. (original) A method in accordance with Claim 3 wherein said depositing a material comprises depositing aluminum on an X-ray tube window to form a wedge shaped filter.
- 5. (original) A method in accordance with Claim 3 wherein said depositing a material comprises depositing copper on an X-ray tube window to form a wedge shaped filter.
- 6. (original) A method in accordance with Claim 2 wherein said positioning a wedge shaped filter comprises positioning the wedge shaped filter proximate an X-ray tube casing filter separated from an X-ray tube window by an oil gap.
- 7. (original) A method in accordance with Claim 6 wherein said positioning a wedge shaped filter further comprises positioning an aluminum wedge shaped filter.
  - 8. (original) A method in accordance with Claim 6 wherein said positioning a

wedge shaped filter further comprises positioning a copper wedge shaped filter.

- 9. (original) A method in accordance with Claim 2 wherein the second vertical side comprises a length between 0.5mm and 1.5mm thicker than the first vertical side.
- 10. (original) A method in accordance with Claim 9 wherein the second vertical side comprises a length of 1mm greater than the first vertical side.
- 11. (original) A method in accordance with Claim 1 wherein said positioning a filter comprises positioning a concave-wedge shaped filter, wherein the concave-wedge shape comprises a horizontal top, a concave bottom, a first vertical side and a second vertical side, wherein the first vertical side and the second vertical side are unequal in length.
  - 12. (original) An X-ray tube comprising:

an anode;

a cathode;

a beryllium window; and

a material deposited on said window, wherein said material is wedge shaped, wherein said wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein said first vertical side and said second vertical side are unequal in length.

- 13. (currently amended) An X-ray tube in accordance with Claim 12 wherein said <u>material deposited on said window forms a</u> wedge shaped filter being positioned includes depositing a material on an X-ray on said X-ray tube window to form said wedge shaped filter.
- 14. (original) An X-ray tube in accordance with Claim 13 wherein said material deposited on an X-ray tube window is aluminum.
- 15. (original) An X-ray tube in accordance with Claim 13 wherein said material deposited on an X-ray tube window is copper.

16. (currently amended) An imaging system for scanning an object comprising:

a radiation source;

a radiation detector positioned to receive radiation from said radiation source;
a computer operationally coupled to said radiation source and said radiation
detector; and

a filter having an anode side and a cathode side, positioned between said source and said detector, wherein said cathode side has a higher attenuation coefficient than said anode side, and wherein the attenuation coefficient is determined to at least partially compensate for a target angle heel effect.

- 17. (original) A system in accordance with Claim 16 wherein said filter is wedge shaped, wherein said wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein said first vertical side and said second vertical side are unequal in length.
- 18. (original) A system in accordance with Claim 17 wherein said wedge shaped filter being positioned includes depositing a material on an X-ray tube window to form said wedge shaped filter.
- 19. (original) A system in accordance with Claim 18 wherein said material deposited on an X-ray tube window comprises aluminum.
- 20. (original) A system in accordance with Claim 18 wherein said material deposited on an X-ray tube window comprises copper.
- 21. (original) A system in accordance with Claim 17 wherein said wedge shaped filter being positioned includes positioning said wedge shaped filter proximate an X-ray tube casing filter separated from an X-ray tube window by an oil gap.
- 22. (original) A system in accordance with Claim 21 wherein said wedge shaped filter being positioned comprises aluminum.

- 23. (original) A system in accordance with Claim 21 wherein said wedge shaped filter being positioned comprises copper.
- 24. (original) A system in accordance with Claim 17 wherein said second vertical side comprises a length between 0.5mm and 1.5mm thicker than said first vertical side.
- 25. (original) A system in accordance with Claim 24 wherein said second vertical side comprises a length of 1mm greater than said first vertical side.
- 26. (original) A system in accordance with Claim 16 wherein said filter is concave-wedge shaped, wherein said concave-wedge shape comprises a horizontal top, a concave bottom, a first vertical side and a second vertical side, wherein said first vertical side and said second vertical side are unequal in length.
- 27. (currently amended) A Computed Tomography (CT) imaging system for scanning an object comprising:

an X-ray source;

an X-ray detector positioned to receive X-rays from said source;

a computer operationally coupled to said X-ray source and said X-ray detector; and

a filter having an anode side and a cathode side, positioned between said source and said detector, wherein said cathode side has a higher attenuation coefficient than said anode side, and wherein the attenuation coefficient is determined to at least partially compensate for a target angle heel effect.

- 28. (original) A system in accordance with Claim 27 wherein said filter is wedge shaped, wherein said wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein said first vertical side and said second vertical side are unequal in length.
- 29. (original) A system in accordance with Claim 28 wherein said wedge shaped filter being positioned includes depositing a material on an X-ray tube window to

form said wedge shaped filter.

- 30. (original) A system in accordance with Claim 29 wherein said material deposited on an X-ray tube window is aluminum.
- 31. (original) A system in accordance with Claim 29 wherein said material deposited on an X-ray tube window is copper.
- 32. (original) A system in accordance with Claim 28 wherein said wedge shaped filter being positioned includes positioning said wedge shaped filter proximate an X-ray tube casing filter separated from an X-ray tube window by an oil gap.
- 33. (original) A system in accordance with Claim 32 wherein said wedge shaped filter being positioned is aluminum.
- 34. (original) A system in accordance with Claim 32 wherein said wedge shaped filter being positioned is copper.
- 35. (original) A system in accordance with Claim 28 wherein said second vertical side comprises a length between 0.5mm and 1.5mm thicker than said first vertical side.
- 36. (original) A system in accordance with Claim 28 wherein said second vertical side comprises a length of 1mm greater than said first vertical side.
- 37. (original) A system in accordance with Claim 27 wherein said filter is concave-wedge shaped, wherein said concave-wedge shape comprises a horizontal top, a concave bottom, a first vertical side and a second vertical side, wherein said first vertical side and said second vertical side are unequal in length.